



## Denis Mušić

**Date of birth:** 22/01/1982 | **Nationality:** Bosnian-Herzegovinian | **Gender:** Male |

**Phone number:** (+387) 36281166 (Work) | **Email address:** [denis@edu.fit.ba](mailto:denis@edu.fit.ba) |

**YouTube:** <https://www.youtube.com/denis4fit> | **LinkedIn:**

<https://www.linkedin.com/in/denis-mušić-79a93630> |

**Address:** Sjeverni logor br. 12, 88104, Mostar, Bosnia and Herzegovina (Work)

### WORK EXPERIENCE

2019 – CURRENT Mostar, Bosnia and Herzegovina

**ASSOCIATE PROFESSOR** UNIVERSITY “DZEMAL BIJEDIC” MOSTAR, FACULTY OF INFORMATION TECHNOLOGIES

Courses: Programming II, Programming III, Software Development I, Software Development II

2014 – CURRENT Mostar, Bosnia and Herzegovina

**ASSISTANT PROFESSOR** UNIVERSITY „DZEMAL BIJEDIC” MOSTAR, FACULTY OF INFORMATION TECHNOLOGY

Courses: Introduction to Programming, Programming 1, Programming 2, Principles of Software Development, Agile methodologies

2009 – 2014 Mostar, Bosnia and Herzegovina

**SENIOR ASSISTANT** UNIVERSITY „DZEMAL BIJEDIC” MOSTAR, FACULTY OF INFORMATION TECHNOLOGY

Courses: Introduction to Programming, Programming 1, Programming 2

2005 – 2009 Mostar, Bosnia and Herzegovina

**ASISSTANT** UNIVERSITY “DZEMAL BIJEDIC” MOSTAR, FACULTY OF INFORMATION TECHNOLOGIES

Courses: Introduction to Programming, Programming 1, Programming 2

2004 – 2005 Mostar, Bosnia and Herzegovina

**DEMONSTRATOR** UNIVERSITY “DZEMAL BIJEDIC” MOSTAR, FACULTY OF INFORMATION TECHNOLOGIES

Courses: Introduction to Information Technologies, Introduction to Programming

### EDUCATION AND TRAINING

2014 – CURRENT Mostar, Bosnia and Herzegovina

**PH.D IN INFORMATION TECHNOLOGY** University “Dzemal Bijedic” Mostar, Faculty of Information Technologies

Thesis: „Mechanism for Adaptation of Group Decision-making in Multi-agent E-Learning Environment”

2005 – 2008 Mostar, Bosnia and Herzegovina

**MASTER OF SCIENCE IN INFORMATION TECHNOLOGY** University „Dzemal Bijedic“ Mostar,  
Faculty of information technology

---

Thesis: „Development of Hospital information systems with application of mobile devices“

2004 – 2005 Mostar, Bosnia and Herzegovina

**GRADUATE ENGINEER IN INFORMATION TECHNOLOGY** University „Dzemal Bijedic“ Mostar,  
Faculty of information technology

---

Final paper title: „City of Mostar - Interactive map“

## ● **LANGUAGE SKILLS**

---

Mother tongue(s): **BOSNIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C1	C1	C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● **ADDITIONAL INFORMATION**

---

### **PUBLICATIONS**

**Importance of Hospital informaton system in managing infectious patient** – 2007

XXI Symposium of BiH infectologists with international participation, Mostar. (2007).

---

Krkić S., Dautović S., Mušić D. & Gojak R.

**Mobile support in diagnosing infectious diseases** – 2008

5th Conference on Information and Communication Technologies, Mostar, (2008).

---

Mušić D. & Šupić H.

**Applying Case-based Reasoning for Mobile Support in Diagnosing Infective Diseases** – 2009

2009 International Conference on Signal Processing Systems, Singapore, pp. 779-783 (Indexed by: EI Compendex, INSPEC, Thomson ISI). (2009).

---

Mušić, D. & Azemović, J.

**Efficient model for detection data and data scheme tempering with purpose of valid forensic analysis,**

– 2009

International Conference on Computer Engineering and Applications, Manila, Philippine, pp. 85-91 (Indexed by: EI Compendex, INSPEC, Thomson ISI (ISTP)). (2009).

---

Azemović, J. & Mušić, D.

**Influence of learning communities and collaborative learning on student's success** – 2009

International Conference on Software Technology and Engineering, Chennai, India, pp. 174-178 .(Indexed by: EI Compendex, INSPEC, Thomson ISI (ISTP))

---

Mušić, D., Azemović, J. & Čatrnja, E.

**Components of the efficient eUniversity system** – 2009

2nd IEEE International Conference on Computer Science and Information Technology (ICCSIT 2009), Beijing, China, pp. 32 – 36 (Indexed by: EI Compendex, INSPEC, Thomson ISI (ISTP))

---

Mušić, D., Azemović, J. & El-Zayat, M.

**Privacy preserving in eLearning environment (Case of modelling Hippocratic database structure) –**

2009  
4th Balkan Conference in Informatics (BCI '09), Bevanda V., Azemović J., Mušić D., Thessaloniki, Greece, 2009, pp. 47-52 (Indexed by: INSPEC)

---

Bevanda, V., Azemović J. & Mušić, D.

**Methods for efficient digital evidences collecting of business process and user activity in eLearning environments**

– 2010  
International Conference on e-Education, e-Business, e-Management and e-Learning (IC4E 2010), China, pp. 126-130 (Indexed by: EI Compendex, INSPEC, Thomson ISI (ISTP))

---

Azemović, J. & Mušić, D.

**Comparative analysis of efficient methods for storing unstructured data into database with accent on performance**

– 2010  
International Conference on Education Technology and Computer (ICETC 2010), Shanghai, China, (2010)

---

Azemović, J. & Mušić

**Patience in group decision-making with emotional agents – 2013**

Trends in Practical Applications of Agents and Multiagent Systems; Advances in Intelligent Systems and Computing Volume 221, pp 163-170, Springer-Verlag (2013)

---

Mušić, D.

**Components of mechanism for adaptation of group decision making in multi-agent eLearning system**

– 2013  
e-Learning Paradigms and Applications; Agent-based Approach, Springer-Verlag (2013)

---

Mušić, D.

**System model for educating new physicians – 2014**

International Conference on e-Education (ICeE 2014), ISSN:2303-6214; Bosnia and Herzegovina, (2014).

---

Sudić, E. & Mušić D.

**Model for Discovering Students' Skills in Educational Institutions – 2014**

25rd Central European Conference on Information and Intelligent Systems (CECIIS 2014), pp 32-36, ISSN: 1847-2001, Varaždin, Croatia, (2014)

---

Dedović L., Mušić D.

**Competency-based learning model in practice – 2017**

15th IEEE International Symposium on Intelligent Systems and Informatics (SISY 2017), ISBN: 978-1-5386-3855-2, Subotica, Serbia, (2017)

---

Dedović L., Mušić D.

**Scarlet - Artificial Teaching Assistant – 2017**

International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), pp. 11 – 14, ISBN-13: 978-1-5090-6536-3, (2017)

---

arić I., Mušić D., Junuz E., Smajić M.

**Sliding Holt Algorithm for Collision Detection with Dynamic Obstacles in 2D and 3D space – 2018**

International Conference on New Trends in Engineering and Technology (ICNTET), IEEE, (2018)

---

Babović E., Radosav D., Mušić D. Azemović J.

**Intelligent Collision Detection With Dynamic Obstacles in 2D and 3D Space Based on Human Behavior**

– 2018  
5th International Conference on Information Science and Control Engineering, IEEE, (2018)

---

Babović E., Radosav D., Mušić D. Azemović J.

**Multidisciplinary undergraduate study of Business informatics from the perspective of Economy and computing**

– 2019

Journal of Faculty of Economics, Brcko, Vol.13, Iss.1, pp. 71-78, ISSN: 2490-2373, DOI: 10.7251/ZREFB1913071B, (2019)

---

Bajramović A., Brkan-Vejzović A., Hubana A., Azemović J., Mušić D., Vejzović Z.

**Development Of Recommender Systems Using ML.Net** – 2019

RIM 2019 - 12th International Scientific Conference on Production Engineering Development And Modernization Of Production, ISSN 2566-3283, pp. 177 - 183 (2019).

---

Hrnjica B., Mušić D., & Softic S.

**Scrum Without a Scrum Master** – 2019

Write here the 2019 IEEE International Conference on Computer Science and Educational Informatization (CSEI), 2019, pp. 325-328, doi: 10.1109/CSEI47661.2019.8938877., IEEE, (2019)description...

---

Z. Ereiz and D. Mušić,

**Model of foresight work habits of agile software team members by personality traits** – 2019

International Conference on Computer, Information and Telecommunication Systems (CITS), 2019, pp. 1-5, doi: 10.1109/CITS.2019.8862095, IEEE, (2019)

---

V. Č. Kuko, D. Mušić, Z. Vejzović and J. Azemović

**Determining Minimal Cost of Action for Task Allocation Within Mobile Robot Swarm in Production Environments**

– 2021

In: Dolgui A., Bernard A., Lemoine D., von Cieminski G., Romero D. (eds) Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology, vol 632. Springer, Cham. [https://doi.org/10.1007/978-3-030-85906-0\\_7](https://doi.org/10.1007/978-3-030-85906-0_7), Springer, (2021)

---

Babović E., Mušić D., Hrnjica B., Joldić A.

**Sliding Holt Algorithm Implementation in Mobile Robots Collision Detection with Dynamic Obstacles Based on Computer Vision Technologies**

– 2021

2021 20th International Symposium INFOTEH-JAHORINA (INFOTEH), 2021, pp. 1-5, doi: 10.1109/INFOTEH51037.2021.9400691., IEEE, (2021)

---

E. Babovic, D. Music, A. Joldic and S. Nogo

**Model for predicting heart failure using Random Forest and Logistic Regression algorithms** – 2021

RIM 2021 - 13th International Scientific Conference on Production Engineering Development And Modernization Of Production, ISSN 2566-3283, IOP Conference Series: Materials Science and Engineering, IOP journal/1757-899X, (2021)

---

Grgić V., Mušić D., Babović E.

**Fire Prediction With Logistic Regression On Territory Of Bosnia And Herzegovina** – 2021

RIM 2021 - 13th International Scientific Conference on Production Engineering Development And Modernization Of Production, ISSN 2566-3283, IOP Conference Series: Materials Science and Engineering, IOP journal/1757-899X, (2021)

---

Musabašić M., Mušić D., Babović E.

**WEB tehnologije (BOOK)** – 2006

Univerzitetska knjiga, (2006)

---

Krkić S., Čehajić S., Mušić D.

**Writing T-SQL Queries for Beginners Using Microsoft SQL Server 2012 (BOOK) – 2013**

Course Number: SQL12-WTS; ISBN: 978-0-986577-3-4; MVP-Press (2013)

---

Azemović, J., Mušić D., Mattias L.

**„Osnovni elementi računarskog sistema i asemblerskog jezika (BOOK) – 2019**

ISBN 978-9926-434-29-8, (2019)

---

Vejsović Z., Mušić D.

**Web razvoj i dizajn (BOOK)**

Univerzitetska knjiga, (2021)

---

Babović E. & Mušić D.

## **DRIVING LICENCE**

**Driving Licence:** AM

**Driving Licence:** A1

**Driving Licence:** A2

**Driving Licence:** A

**Driving Licence:** B1

**Driving Licence:** B

**Driving Licence:** BE

**Driving Licence:** C1

**Driving Licence:** C1E

**Driving Licence:** C

**Driving Licence:** CE

**Driving Licence:** D1

**Driving Licence:** D1E

**Driving Licence:** D

**Driving Licence:** DE

## **HONOURS AND AWARDS**

2003

**Praise for the success achieved during the third year of study – University “Dzermal Bijedic” Mostar, Faculty of Information Technologies**

2005

**Degree of success achieved during the study – University “Dzermal Bijedic” Mostar, Faculty of Information Technologies**

2014

**MVP – Microsoft Most Valuable Professional – Microsoft Awarded 4 years in a row: 2014 - 2018**

**Link** <https://mvp.microsoft.com/en-us/mvp/profile/df9007f9-3c9a-e411-93f2-9cb65495d3c4>

2022

**MVP – Microsoft Most Valuable Professional – Microsoft**

**Link** <https://mvp.microsoft.com/en-us/mvp/profile/df9007f9-3c9a-e411-93f2-9cb65495d3c4>

## **HOBBIES AND INTERESTS**

Programming and programming languages

Databases (MS SQL, PostgreSQL)

Development of Windows, Mobile and Web based applications (.Net, Xamarin, Flutter)

Mobile intelligent agents

Artificial intelligence

Machine learning

Case based reasoning

Quantum Computing

Blochchain Technologies

## **PROJECTS**

**Studis** Design and development of software for Students hostel

**Mostar City Map** Team member for design and development of interactive city map of Mostar

**HIS (Hospital Information System)** Team member for design and development of software for major Infectious clinic in Clinical Center of the University of Sarajevo. The project involved providing support for the daily activities of the medical staff, starting from the admission of the patient, hospitalization, conciliatory examinations, all the way to his discharge.

**VIS (Veterinary Information System)** Design and development of software for regional Animal health care institution which is in charge of animal health at the level of the entire Sarajevo Canton.

**DLWMS (Distance Learning Web Management System)** Team member for design and development of software for supporting Distance Learning study process.

**ConfigPOS (Config Point of Sale)** Team member for design and development of software solution that is available in different versions (web, desktop and mobile) in order to provide support for business processes of restaurants, cafes and other catering facilities. The project is used in hundreds of restaurants in different countries of the region.

**eSkola (eSchool)** Team member for design and development of software platform that aims to provide representatives of the Ministry of Education, administrators, teaching staff and students with a unique location for sharing knowledge, exchanging information, and managing educational processes. At the time of the COVID19 pandemic, the application was implemented for the needs of primary and secondary schools in the Herzegovina-Neretva Canton and Una-Sana Canton. (<https://eskola.ba/>).

**eUniversity** Team member for design and development of unique service platform that offers centralized access to data necessary for the quality performance of daily university activities and provides support for the work of student services office, teaching staff, students and management. (<https://euniversity.ba/>).

**MPNamex (Namex Retail)** Team member for design and development of an application to support the business processes of the supermarket chain company Namex. In addition to supporting retail facilities, integration was performed with the ERP service, which provided financial management, sales and operations, and complete business analytics.

## **ORGANISATIONAL SKILLS**

**Vice Rector for Science and Research (2018)** University "Dzemail Bijedic" Mostar

**Vice Dean for Science and Research (2016 - 2018)** University "Dzemail Bijedic" Mostar, Faculty of Information Technologies

**Vice Dean for Science and Research (2013 - 2015)** University "Dzemail Bijedic" Mostar, Faculty of Information Technologies

**Vice Dean for Finances(2010 - 2011)** University "Dzemail Bijedic" Mostar, Faculty of Information Technologies

